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| Substitute for form 1449A/PTO | | | | Complete If Known | |
| | | | | Application Number | Not Yet Assigned 4400 |
| | | | | Filing Date | Concurrently |
| | | | | First Named Inventor | Kenji Sato |
| | | | | Art Unit | N/A |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 1 | of | 2 | Attorney Docket Number | HO-P03167US0 |

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|-----------------------|---|--------------------------------|--|--|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| AMG | AA | US-4,473,551 | 09-25-1984 | Schinitsky | |
| AMG | AB | US-6,379,709 | 04-30-2002 | Slim et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------------|--|--------------------------------|--|--|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| AMG | BA | JP-9-512563 | 12-16-1997 | Dupont et al. | |
| | BB | JP-2001-48795 | 02-20-2001 | Yagita | |
| | BC | JP-2003-246742 | 02-09-2003 | Dupont et al. | |
| | BD | JP-2003-300858 | 10-21-2003 | Osumi et al. | |
| 1 | BE | WO-95/32722 | 12-07-1995 | Dupont et al. | |
| | BF | WO-96/23512 | 08-08-1996 | Dupont et al. | |
| | AMG | WO-03/068249 | 08-21-2003 | Kralovec et al. | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹Applicant's unique citation designation number (optional). ²See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|-----------------------|--|--|--|--|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| AMG | CA | Davis et al., "Inhibition of Angiogenesis by Oral Ingestion of Powdered Shark Cartilage in a Rat Model," <i>Microvascular Research</i> , 54: 178-182, 1997. | | | |
| | CB | Ernst, "Shark cartilage for cancer?" <i>The Lancet</i> , 351: 298, 1998. | | | |
| | CC | Folkman, "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nature Medicine</i> , 1: 27-31, 1995. | | | |
| | CD | Gingras et al., "Shark cartilage extracts as antiangiogenic agents: smart drinks or bitter pills?" <i>Cancer and Metastasis Reviews</i> , 19: 83-86, 2000. | | | |
| | CE | Iki et al., "Expression of matrix metalloproteinase 2 (MMP-2), membrane-type 1 MMP and tissue inhibitor of metalloproteinase 2 and activation of proMMP-2 in pancreatic duct adenocarcinomas in hamsters treated with N-nitrosobis(2-oxopropyl)amine," <i>Carcinogenesis</i> , 20(7): 1323-1329, 1999. | | | |
| 2 | CF | Kitahashi et al., "Changes in Serum Matrix Metalloproteinase(MMPs) and Serine Protease Levels and Inhibition of Their Activity in Hamsters Fed with Shark Cartilage Extracts," Annual Meeting of Japan Society Bioscience, Biotechnology, and Agrochemistry, 2003 (abstract in English). | | | |
| | CG | Lee et al., "Shark Cartilage Contains Inhibitors of Tumor Angiogenesis," <i>Science</i> , 221: 1185-1187, 1983. | | | |
| | CH | Moses et al., "A Metalloproteinase Inhibitor as an Inhibitor of Neovascularization," <i>J. Cell. Biochem.</i> , 47: 230-235, 1991. | | | |
| AMG | CI | Murata, "Effects of Bovine and Shark Cartilage Water Extracts on Pancreatic Ductal Carcinogenesis in Hamsters," <i>Journal of Nara Medical Association</i> , 53(5-6): 241-252, 2002 (with English translation). | | | |

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| Examiner Signature | /Anne Gussow/ | Date Considered | 11/06/2006 |
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| | | | | First Named Inventor | Kenji Sato |
| | | | | Art Unit | N/A |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 2 | of | 2 | Attorney Docket Number | HO-P03167US0 |

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|-----|----|---|--|--|--|
| AMG | CJ | Naito et al., "Inhibition of Growth of Human Tumor Cells in Nude Mice by a Metalloproteinase Inhibitor," <i>Int. J. Cancer</i> , 58: 730-735, 1994. | | | |
|-----|----|---|--|--|--|

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